PATIENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

To: FQUBED, INC. 6330 NANCY RIDGE DRIVE SUITE 107 SAN DIEGO, CA 92121	PCT NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT AND THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION		
	(PCT Rule 44.1) Date of mailing		
	(day/month/year) 18 APR 2005		
Applicant's or agent's file reference	FOR FURTHER ACTION See paragraphs 1 and 4 below		
International application No. PCT/US04/24760	International filing date (day/month/year) 30 July 2004 (30.07.2004)		
Applicant FQUBED, INC.			
The applicant is hereby notified that the international search report and the written opinion of the International Searching Authority have been established and are transmitted herewith.			
Filing of amendments and statement under Article 19 The applicant is entitled, if he so wishes, to amend the c	Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the claims of the international application (see Rule 46):		
When? The time limit for filing such amendments is search report.	is normally two months from the date of transmittal of the international		
Where? Directly to the International Bureau of WIP 1211 Geneva 20, Switzerland, Facsimile N			
For more detailed instructions, see the notes on the			
2. The applicant is hereby notified that no international sea	rch report will be established and that the declaration under the International Searching Authority are transmitted herewith.		
	itional fee(s) under Rule 40.2, the applicant is notified that:		
the protest together with the decision thereon has b request to forward the texts of both the protest and	een transmitted to the International Bureau together with the applicant's the decision thereon to the designated Offices.		
	pplicant will be notified as soon as a decision is made.		
4. Reminders			
Shortly after the expiration of 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90bis.1 and 90bis.3, respectively, before the completion of the technical preparations for international publication.			
The applicant may submit comments on an informal basis on the written opinion of the International Searching Authority to the International Bureau. The International Bureau will send a copy of such comments to all designated Offices unless an international preliminary examination report has been or is to be established. These comments would also be made available to the public but not before the expiration of 30 months from the priority date.			
Within 19 months from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filled if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later); otherwise, the applicant must, within 20 months from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices.			
See the Annex to Form PCT/IB/301 and, for details about the	ths (or later) will apply even if no demand is filed within 19 months. are applicable time limits, Office by Office, see the PCT Applicant's		
Guide, Volume II, National Chapters and the WIPO Internet site.			
Name and mailing address of the ISA/ US Mail Stop PCT, Attn: ISA/US Commissioner for Patents	Authorized officer Jill Warden Jean Proctor		

Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450
Facsimile No. (703) 305-3230
Form PCT/ISA/220 (January 2004)

(See notes on accompanying sheet)

Telephone No. (571)-272-1700

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER ACTION 25 W	see Form PCT/ISA/220 ell as, where applicable, item 5 below.
International application No. PCT/US04/24760	International filing date (day/month. 30 July 2004 (30.07.2004)	(Earliest) Priority Date (day/month/year) 01 August 2003 (01.08.2003)
Applicant FQUBED, INC.		
according to Article 18. A copy is being This international search report consists It is also accompanied Basis of the Report	of a total of 3 sheets. I by a copy of each prior art documents	ent cited in this report.
language in which it was filed, u	nless otherwise indicated under this it	
	search was carried out on the basis or rity (Rule 23.1(b)).	f a translation of the international application
		osed in the international application, see Box No. I.
 - 	unsearchable (See Box No. II)	
 Unity of invention is lackin With regard to the title, 	g (See Box No. III)	·
the text is approved as subm	itted by the applicant.	·
	by this Authority to read as follows:	. *
		:
	according to Rule 38.2(b), by this A	uthority as it appears in Box No. IV. The applicant tal search report, submit comments to this Authority.
as suggested by the a	authority, because the applicant failed authority, because this figure better cl	to suggest a figure.
	TIME WIND WORLDON	<u> </u>

Form PCT/ISA/210 (first sheet) (January 2004)

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/24760

Box IV TEXT OF THE ABSTRACT (Continuation of Item 5 of the first sheet)

The technical features mentioned in the abstract do not include a reference sign between parentheses (PCT Rule 8.1(d)).

The abstract is too long (PCT Rule 8.1(b)). The abstract must be less than 150 words, or 200 words when no figure is to be . published.

NEW ABSTRACT

The present invention teaches apparatus (511) and method for screening the effect of test formulations on the barrier properties of a membrane (212), that are especially beneficial when skin is used as the test membrane (212). The apparatus (511) and methods enable more efficient measurements of skin permeabilization, of the permeation of molecular or particulate entities through skin, and of the absorption and adsorption by skin of ingredients in fluid formulations, together with screening of exfoliation of material from the exterior of the stratum corneum. The apparatus (511) provide for fluid contact to the skin from both donor receptor sides, for measurements of skin electrical response in the presence of test formulations, of permeation and permeation enhancement, for the depth profiling of test formulation constitutents through the skin, of stratum corneum component disruption, and of loss of material from the stratum corneum.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/24760

A. CLASSIFICATION OF SUBJECT MATTER IPC(7) : B01L 3/00 US CL : 422/102				
	International Patent Classification (IPC) or to both nat	ional classification and IPC		
2. 2	OS SEARCHED	1		
U.S. : 42	cumentation searched (classification system followed by 22/99-104, 129, 130; 436/174, 179, 180			
Documentatio	Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched			
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)				
C. DOC	JMENTS CONSIDERED TO BE RELEVANT		Polovent to plain No	
Category *	Citation of document, with indication, where ap	propriate, of the relevant passages	Relevant to claim No.	
X, E	US 6,817,558 B1 (KARLSSON et al) 16 November	2004 (16.11.2004), Figures 2 and 3A.	1, 4	
x	US 6,338,802 B1 (BODNER et al) 15 January 2002 (15.01.2002), Figure 2.		1, 4	
х	US 5,342,581 A (SANADI) 30 August 1994 (30.08.1994), Figure 11.		1,4	
A	US 6,742,659 B2 (CLARK et al) 01 June 2004, (01.06.2004), entire document.		•	
A	US 5,141,719 A (FERNWOOD et al) 25 August 1999, (25.08.1999), entire document.		·	
	·			
	·			
		·		
	20.00	See patent family annex.		
	documents are listed in the continuation of Box C.	T" later document published after the inte	mational filing date or oriority	
"A" document	pecial categories of cited documents: defining the general state of the art which is not considered to be	date and not in conflict with the applic principle or theory underlying the inve	eation but cited to understand the ention	
-	alar relevance plication or patent published on or after the international filing date	"X" document of particular relevance; the considered novel or cannot be considered when the document is taken alone	claimed invention cannot be red to involve an inventive step	
	t which may throw doubts on priority claim(s) or which is cited to the publication date of another citation or other special reason (as	"Y" document of particular relevance; the	o when the document is	
· ·	referring to an oral disclosure, use, exhibition or other means	combined with one or more other such being obvious to a person skilled in th	e art	
	priority date claimed			
Date of the actual completion of the international search		Date of mailing of the international search report 1 8 APR 2005		
	05 (21.03.2005)	Authorized officer		
	ailing address of the ISA/US il Stop PCT, Attn: ISA/US		. (/)	
Cor	Commissioner for Desert		ctol	
P.O. Box 1450 Alexandria, Virginia 22313-1450 Telephone No. (571)-272-1700 aralogal Spell on the spell of th			specific	
Facsimile No. (703) 305-3230				

P. ENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTH	IORITY		
To: FQUBED, INC. 6330 NANCY RIDGE DRIVE		PCT	
SUITE 107 SAN DIEGO, CA 92121		WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY	
(PCT Rule 43bis. 1)		(PCT Rule 43bis.1)	
·		Date of mailing (day/month/year)	1 8 APR 2005
Applicant's or agent's file reference		FOR FURTHER	ACTION See paragraph 2 below
International application No.	International filing date	1 (day/month/year)	Priority date (day/month/year)
PCT/US04/24760 International Patent Classification (IPC)	30 July 2004 (30.07.200	tion and IPC	01 August 2003 (01.08.2003)
IPC(7): B01L 3/00 and US Cl.: 422/10			
Applicant			
FQUBED, INC.			
1. This opinion contains indications re	elating to the following iten	ns:	
Box No. I Basis of the	Box No. I Basis of the opinion		
Box No. II Priority			
	Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability		
Box No. IV Lack of unity of invention Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial			
applicabili	Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement		
	cuments cited		•
	•		
Box No. VIII Certain ob	servations on the internation	onat application	·
2. FURTHER ACTION If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.			
If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220.			
3. For further details, see notes to Form PCT/ISA/220.			
Name and mailing address of the ISA/	US	Authorized office	T (
Mail Stop PCT, Attn: ISA/US Commissioner for Patents		Jill Warden	less Proctor
P.O. Box 1450 Alexandria, Virginia 22313-1450 Telephone No. (571)-272-1700			
Facsimile No. (703) 305-3230 Form PCT/ISA/237 (cover sheet) (January 2004)			

WRITTEN OPINION OF THE

International application No.

PCT/US04/24760

B	Box No. I Basis of this opinion			
1.	With it was	regard to the language, this opinion has been established on the basis of the international application in the language in which filed, unless otherwise indicated under this item. This opinion has been established on the basis of a translation from the original language into the following language		
	ш	which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).		
2.	With claim	regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the ed invention, this opinion has been established on the basis of:		
	· a.	type of material		
		a sequence listing		
	٠	table(s) related to the sequence listing		
	b.	format of material		
		in written format		
		in computer readable form		
	c.	time of filing/furnishing		
•		contained in international application as filed.		
		filed together with the international application in computer readable form.		
		furnished subsequently to this Authority for the purposes of search.		
	٠			
3.		In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.		
4.	Addi	ional comments:		
		·		
		·		
	•			

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US04/24760

Box No. V Reasoned statement under Rule 43 bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement			
Claims 2,3,5-29	YES		
Claims 1,4	NO		
Claims 2,3,5-29	YES		
Claims 1,4	NO		
Claims 1-29	YES		
Claims NONE	NO		
	Claims 2,3,5-29 Claims 1,4 Claims 2,3,5-29 Claims 1,4 Claims 1,4 Claims 1.4		

2. Citations and explanations:

Claims 1 and 4 lack novelty under PCT Article 33(2) as being anticipated by Bodner et al. (6,338,802). Bodner shows a plurality of wells (12) in a plate (10) having a membrane (8) sealing the bottom of the well and a plate (20A) for sealing the top.

Claims 1 and 4 lack novelty under PCT Article 33(2) as being anticipated by Sanadi et al. (5,342,581). In Figure 11, Sanadi shows a well plate having wells (246) sealed by a membrane (228) and a top plate (236).

Claims 2, 3 and 5-19 meet the criteria set out in PCT Article 33(2)-(3), because the prior art does not teach or fairly suggest the following: The sealing mechanisms recited by applicant in claims 2, 3 and 5-15. The prior art does not teach an article for assaying formulations that contains skin. The prior art also does not teach a method of measuring the effectiveness of exfoliants or characteristics of a skin sample in a well plate.

Claims 1-29 meet the criteria set out in PCT Article 33(4), and thus have industrial applicability because the subject matter claimed can be made or used in industry.